

Amendments to the Specification:

After page 21, line 31 (paragraph [0194]), please add the following new paragraphs:

Item 1. Method to transmit an information service in a broadcast transmission system, comprising the following steps:

performing a fragmentation within each of categories representing said information service to create data fragments,

adding signalling information to every data fragment, which signalling information allows a consistent reassembly of said data fragments at a receiver on basis of predefined protocol rules, to create respective broadcast objects, and

transmitting said broadcast objects in an order according to an information content of said data fragment within said broadcast object.

Item 2. Method according to claim 1, wherein said fragmentation is performed dependent on the information content of the data to be transmitted.

Item 3. Method according to item 1 or 2, wherein a broadcast object is classified in dependency on the information content of the data fragment carried within a broadcast object, and a repetition rate of transmitting a broadcast object is dependent on its type.

Item 4. Method according to any one of the preceding items, wherein said information service comprises a structure with three layers, namely

service which provides information considered useful for a user when choosing a service among several others;

category which links several items; and

item which carries the information the user is interested in.

Item 5. Method according to any one of the preceding items, wherein said fragmentation divides a category horizontally in at least two groups by building groups of item attributes of items of said category according to an importance of said item attributes.

Item 6. Method according to item 5, wherein four groups of item attributes are built, namely:

a core attributes group which covers a set of the most important attributes, which should be available in a terminal first on average;

a dynamic attributes group which are likely to change with a higher frequency than other attributes;

a main attributes group which covers all remaining item attributes; and

a referenced attributes group which consists of attributes belonging to one of the other three attribute groups which are included therein as reference only and to be transmitted separately, e.g., because they comprise a high amount of data.

Item 7. Method according to any one of the preceding items, wherein said fragmentation divides at least parts of a category vertically by building groups of items of said category according to a logical membership of said items.

Item 8. Method according to item 7, wherein two types of broadcast objects are defined, namely:

item subset directory containing information about all items which are transmitted in a predefined format; and

item subset containing item data of a predefined format.

Item 9. Method according to item 6 and any one of items 7 or 8, wherein six types of broadcast objects are defined, namely:

service directory containing elementary information about a service;

category directory containing a complete list of all categories within a service;

item directory containing all core attributes of all items of a category;

item dynamic data list containing the dynamic attributes of at least a group of items;

item main data list containing the main attributes of at least a group of items; and

referenced attributes containing one referenced attribute of one item.

Item 10. Method according to item 9, wherein the signalling information of a service directory broadcast object comprises a protocol version attribute to enable a receiving terminal to check protocol compatibility between the broadcast service and a processing unit in the terminal.

Item 11. Method according to any one of the preceding items, wherein the signalling information of a broadcast object comprises a type attribute indicating a classification of said broadcast object, and/or an ID attribute to distinguish several broadcast objects of a same type of broadcast objects, and/or a version attribute to indicate a change of a certain broadcast object.

Item 12. Method according to items 9 to 11, wherein a reference to a referenced attribute comprises the ID of the broadcast object carrying the referenced attribute and a version attribute of the referenced broadcast object.

Item 13. Method according to item 12, wherein in case of an update of a referenced attribute the version attribute of the referenced attribute object and the version of the attribute reference change, or the reference changes by exchanging the identifier and using the version information of the newly referenced attribute.

Item 14. Method according to items 9 to 11 or any one of items 12 and 13, wherein the item core attributes group, the item main attributes group and the item dynamic attributes group each comprise an own version attribute which indicates an information update whenever an item attribute value or an item attribute cardinality of the respective item attributes group changes.

Item 15. Method according to item 14, wherein the broadcast object comprising an item of the item core attributes group and of the item directory carries all three version attributes, a broadcast object comprising an item of the item main attributes group carries a main version attribute, and a broadcast object comprising an item of the item dynamic attributes group carries a dynamic version attribute.

Item 16. Method according to items 9 to 11 or any one of items 12 to 15, wherein the item directory comprises a version attribute which indicates an update whenever an item set

comprising all core attributes of all items of a category changes or the vertical fragmentation changes.

Item 17. Method according to items 9 to 11 or any one of items 12 to 16, wherein the item main data list and the item dynamic data list respectively comprise a version attribute which indicates an update whenever a respective item subset comprising the respective main or dynamic attributes of at least a group of items changes or the vertical fragmentation changes.

Item 18. Method according to items 9 to 11 or any one of items 12 to 17, wherein the category comprises a version attribute which indicates an update whenever a category attribute value or a category attribute cardinality changes.

Item 19. Method according to items 9 to 11 or any one of items 12 to 18, wherein the category directory comprises a version attribute which indicates an update whenever a category set comprising a complete list of all categories within a service changes.

Item 20. Method according to items 9 to 11 or any one of items 12 to 19, wherein the service directory comprises a version attribute which indicates an update whenever the protocol version attribute or a service attribute changes.

Item 21. Method according to any one of the preceding items, wherein the signalling information of a broadcast object carrying a fragment of a category comprises a category ID

attribute which specifies uniquely an information category and attributes which allow the defragmentation of the category.

Item 22. Method according to any one of the preceding items, wherein said broadcast transmission system is DAB.

Item 23. Method to receive an information service in a broadcast transmission system, comprising the following steps:

receiving broadcast objects;
extracting signalling information and a data fragment of every received broadcast object, which signalling information allows a consistent reassembly of said data fragments into an information category of said information service on basis of predefined protocol rules; and
performing a defragmentation within each of categories representing said information service to create said information service.

Item 24. Method according to item 23, wherein said defragmentation is performed corresponding to the fragmentation defined in any one of items 2 to 22.

Item 25. Receiver to perform the method steps according to item 23 or 24.